

## Impacts of weather events on gastrointestinal medical visits in Taiwan

<b>Author(s):</b>	Huang YL, Sung FC, Wang YC, Wu TN, Liu CM, Chou CH
<b>Conference:</b>	International Society of Environmental Epidemiologists (ISEE) 21st Annual Conference held 25-29 August 2009 (Dublin, Ireland)
<b>Year:</b>	2009
<b>Publisher:</b>	Epidemiology
<b>Volume:</b>	20
<b>Page:</b>	PS1.1.102

### Abstract:

Background: Studies have shown that infectious disease outbreaks are often associated with natural disasters, such as floods and excessive precipitation. However, exploring the impact of drought on human health is scarce. This study explored impacts on gastrointestinal medical visits in connection with typhoons, floods and water outage in Taiwan. Methods: Health care data, weather events data (including typhoon, flood and water outage), and meteorological data were obtained from the National Health Insurance Bureau and the Central Weather Bureau, respectively. We measured the monthly average morbidity of medical visits for gastroenteritis, and the associated relative risks (RR) by demographic factors, ambient temperature and climatic events. Results: Monthly medical visits for gastroenteritis were higher during January-March and July-September. Comparing to normal periods, the relative risk (RR) (1.31, 95 percent confidence interval (CI) 1.27-1.33) for a gastrointestinal medical visit was higher during the water outage period, and lower in typhoons and floods (RR=0.944 and 0.934, respectively, both  $p>0.05$ ). After adjusting for weather events, demographic factors and daily maximum temperature, the relative risk for gastrointestinal medical services increased at higher ambient temperatures. The probability to have medical visits for gastroenteritis was lower in males than in females (RR=0.69,  $p$

**Source:** <http://dx.doi.org/10.1097/01.ede.0000362431.59345.af>  
<https://isee.conference-services.net/reports/template/onetextabstract.xml?xsl=template/onetextabstract.xsl&conferenceID=1651&abstractID=308382>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Extreme Weather Event, Food/Water Security, Temperature

**Extreme Weather Event:** Drought, Flooding, Hurricanes/Cyclones

#### Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location:

resource focuses on specific location

Non-United States

**Non-United States:** Asia

**Asian Region/Country:** Other Asian Country

**Other Asian Country:** Taiwan

#### Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

**Infectious Disease:** Foodborne/Waterborne Disease

**Foodborne/Waterborne Disease (other):** Gastroenteritis

#### Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

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Adaptation

**Population of Concern:** A focus of content

**Population of Concern:** ☐

populations at particular risk or vulnerability to climate change impacts

Elderly

**Other Vulnerable Population:** Female

**Resource Type:** ☐

format or standard characteristic of resource

Research Article

**Timescale:** ☐

time period studied

Time Scale Unspecified

**Vulnerability/Impact Assessment:** ☐

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content